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### Abstract

Recombinant DNA molecules are described which contain a DNA sequence encoding a protein with the biological activity of a 2-deoxyglucose-6-phosphate (2-DOG-6-P) phosphatase and being under the control of regulatory sequences of a promoter active in plants and transcription-termination and/or polyladenylation signals. Also, vectors and hosts are described which contain the recombinant DNA molecules according to the invention. Furthermore, processes for producing transformed plant cells and plants using the described recombinant DNA molecules and vectors are provided. The invention also describes transgenic plants, their harvest products and propagation material as well as plant cells and tissues containing the recombinant DNA molecules or vectors according to the invention or having been produced by the process according to the invention.

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